

Data File : VU035654.D  
Acq On : 06 Nov 2019 17:49  
Operator : JC/SP  
Sample : K5716-06  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BE893

Quant Time: Nov 07 04:52:06 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM103119WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Nov 07 04:46:39 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 608091   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 593364   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 165074   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.62    | 65    | 174434   | 35.52    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 71.04%  |
| 7) Chloroethane-d5             | 1.93    | 69    | 164125   | 41.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 83.68%  |
| 11) 1,1-Dichloroethene-d2      | 2.60    | 63    | 232752   | 30.47    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 60.94%  |
| 21) 2-Butanone-d5              | 4.69    | 46    | 288492   | 100.56   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 100.56% |
| 24) Chloroform-d               | 5.11    | 84    | 364209   | 48.02    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.04%  |
| 26) 1,2-Dichloroethane-d4      | 5.75    | 65    | 222942   | 47.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.96%  |
| 32) Benzene-d6                 | 5.77    | 84    | 746644   | 48.27    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.54%  |
| 36) 1,2-Dichloropropane-d6     | 6.74    | 67    | 247392   | 49.32    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 98.64%  |
| 41) Toluene-d8                 | 7.93    | 98    | 672113   | 46.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 92.14%  |
| 43) trans-1,3-Dichloropropene- | 8.22    | 79    | 106532   | 46.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 92.22%  |
| 47) 2-Hexanone-d5              | 8.68    | 63    | 176294   | 91.71    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 91.71%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.79   | 84    | 341192   | 47.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 95.66%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.22   | 152   | 175969   | 52.85    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 105.70% |

#### Target Compounds

|                                |       |     |       |       |        | Qvalue |
|--------------------------------|-------|-----|-------|-------|--------|--------|
| 9) Trichlorofluoromethane      | 2.16  | 101 | 7787  | 1.182 | ug/L   | 94     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61  | 101 | 4423  | 1.170 | ug/L # | 62     |
| 12) 1,1-Dichloroethene         | 2.60  | 96  | 3510  | 0.945 | ug/L # | 1      |
| 13) Acetone                    | 2.67  | 43  | 7990  | 3.165 | ug/L   | 88     |
| 34) Trichloroethene            | 6.58  | 95  | 27142 | 6.402 | ug/L   | 96     |
| 46) Tetrachloroethene          | 8.58  | 164 | 19445 | 5.485 | ug/L   | 95     |
| 48) 2-Hexanone                 | 8.69  | 43  | 13308 | 2.739 | ug/L # | 56     |
| 53) m,p-Xylene                 | 9.73  | 106 | 18137 | 2.587 | ug/L   | 83     |
| 59) 1,2,3-Trichloropropane     | 11.84 | 75  | 16857 | 2.895 | ug/L   | 89     |

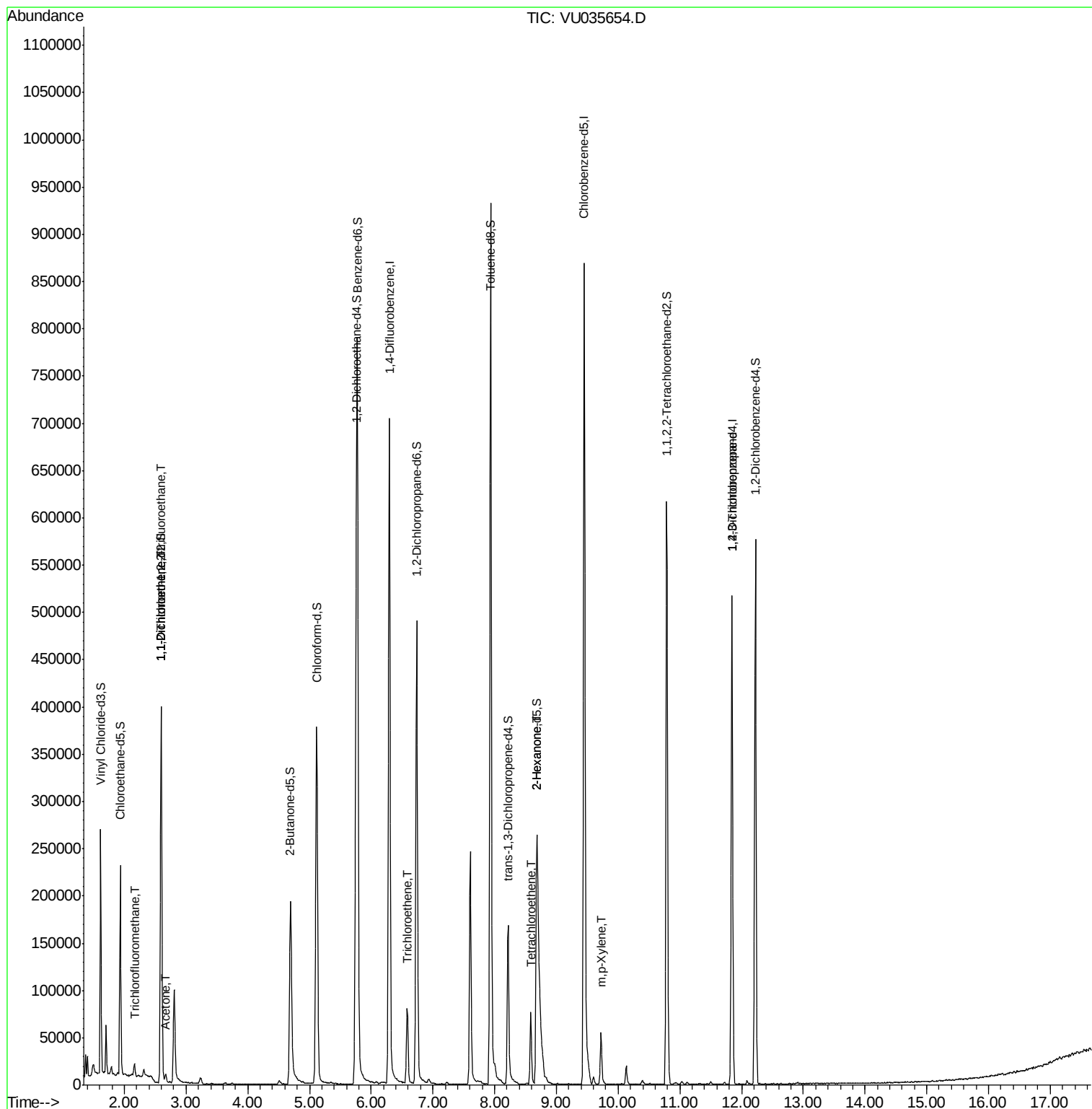
(#) = qualifier out of range (m) = manual integration (+) = signals summed

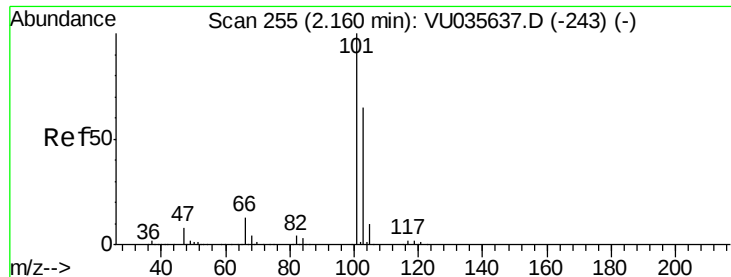
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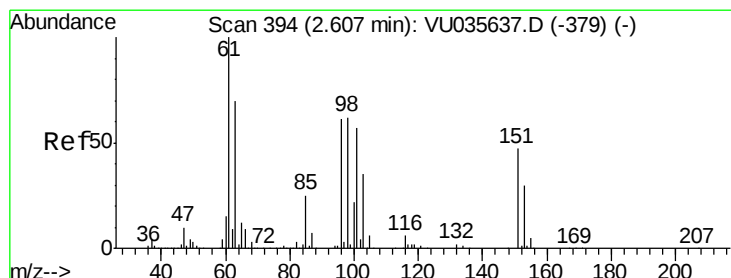
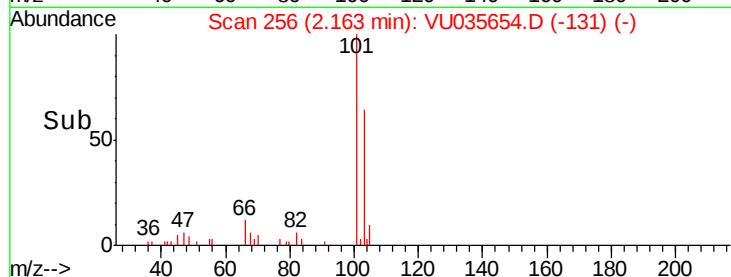
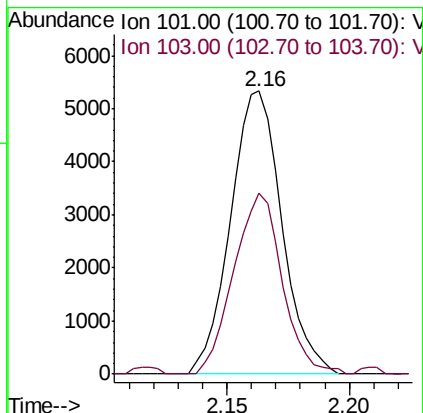
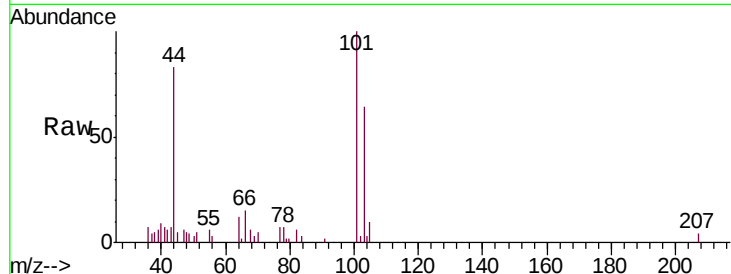


#9

Trichlorofluoromethane  
 Concen: 1.182 ug/L  
 RT: 2.16 min Scan# 256  
 Delta R.T. 0.00 min  
 Lab File: VU035654.D  
 Acq: 06 Nov 2019 17:49

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BE893

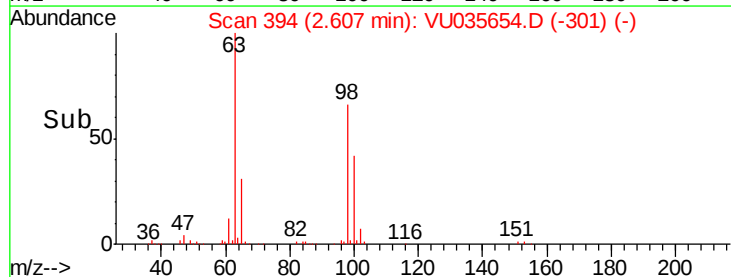
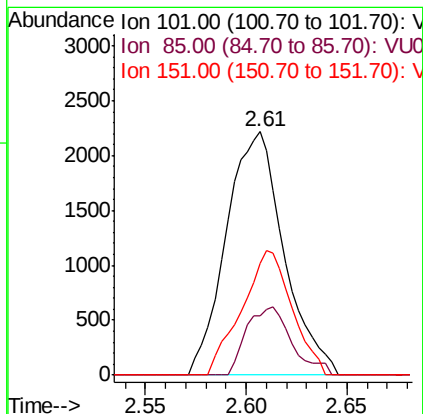
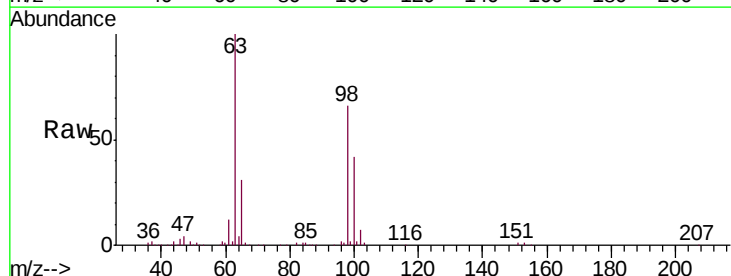
Tgt Ion:101 Resp: 7787  
 Ion Ratio Lower Upper  
 101 100  
 103 59.9 51.8 77.6

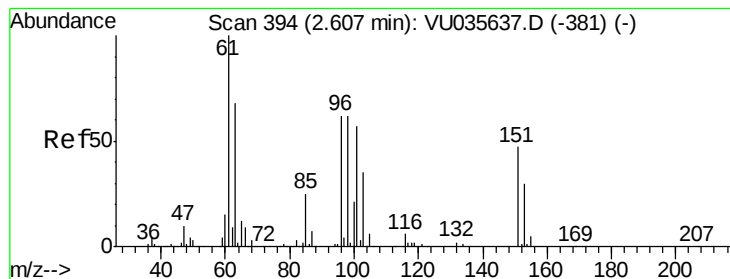


#10

1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 1.170 ug/L  
 RT: 2.61 min Scan# 394  
 Delta R.T. -0.00 min  
 Lab File: VU035654.D  
 Acq: 06 Nov 2019 17:49

Tgt Ion:101 Resp: 4423  
 Ion Ratio Lower Upper  
 101 100  
 85 21.0 34.0 51.0#  
 151 44.6 64.2 96.4#





#12

1,1-Dichloroethene

Concen: 0.945 ug/L

RT: 2.60 min Scan# 392

Delta R.T. -0.01 min

Lab File: VU035654.D

Acq: 06 Nov 2019 17:49

Instrument :

MSVOA\_U

ClientSampleId :

BE893

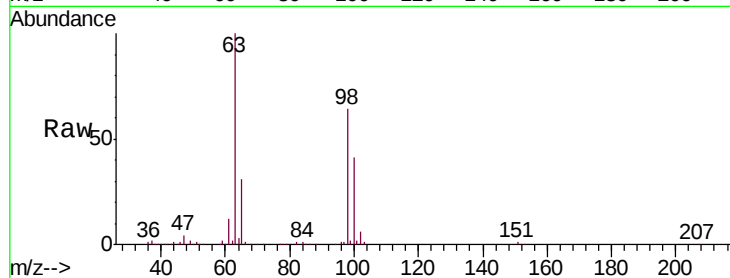
Tgt Ion: 96 Resp: 3510

Ion Ratio Lower Upper

96 100

61 818.1 113.1 210.1#

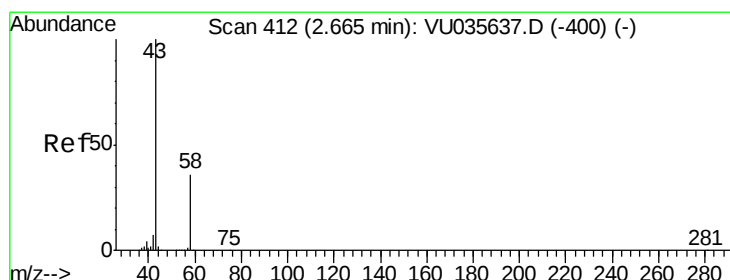
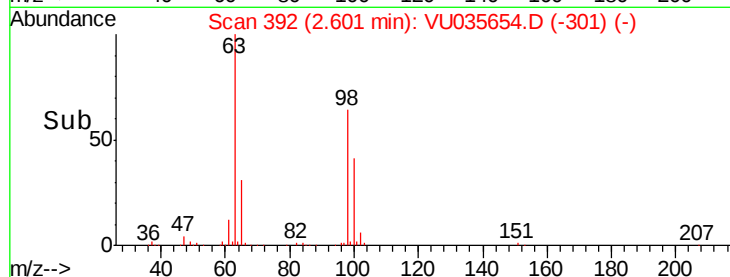
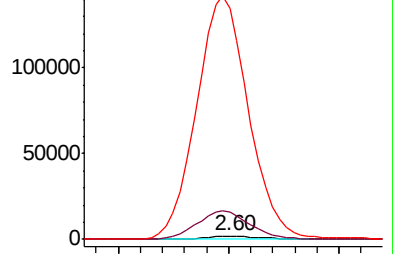
63 6881.5 76.2 141.4#



Abundance Ion 96.00 (95.70 to 96.70): VU035637.D (-381) (-)

Ion 61.00 (60.70 to 61.70): VU035637.D (-381) (-)

Ion 63.00 (62.70 to 63.70): VU035637.D (-381) (-)



#13

Acetone

Concen: 3.165 ug/L

RT: 2.67 min Scan# 414

Delta R.T. 0.01 min

Lab File: VU035654.D

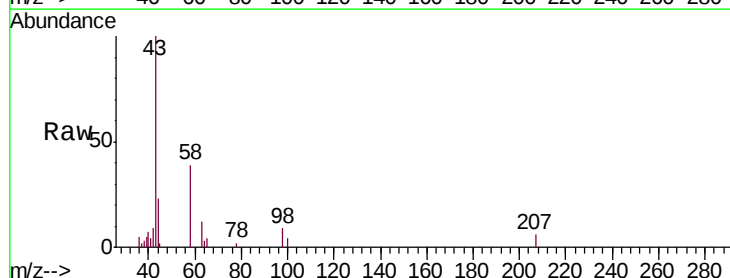
Acq: 06 Nov 2019 17:49

Tgt Ion: 43 Resp: 7990

Ion Ratio Lower Upper

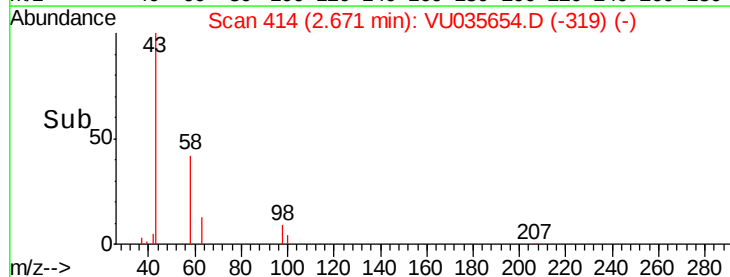
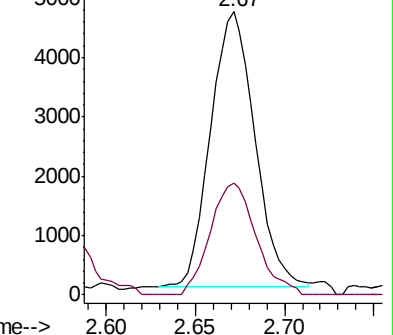
43 100

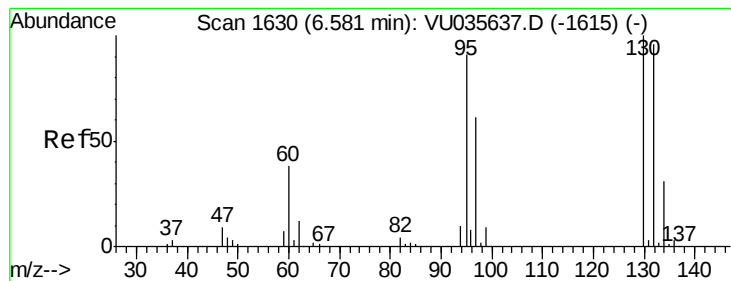
58 42.3 0.0 70.0



Abundance Ion 43.00 (42.70 to 43.70): VU035637.D (-400) (-)

Ion 58.00 (57.70 to 58.70): VU035637.D (-400) (-)





#34

Trichloroethene

Concen: 6.402 ug/L

RT: 6.58 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VU035654.D

Acq: 06 Nov 2019 17:49

Instrument :

MSVOA\_U

ClientSampleId :

BE893

Tgt Ion: 95 Resp: 27142

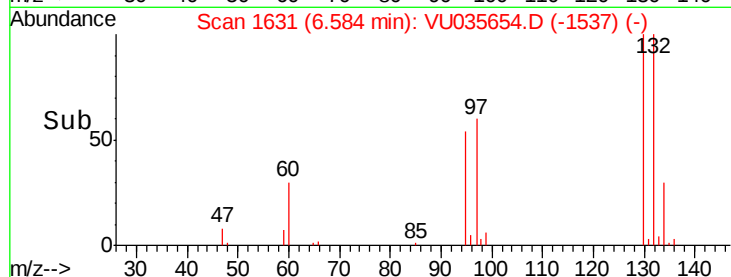
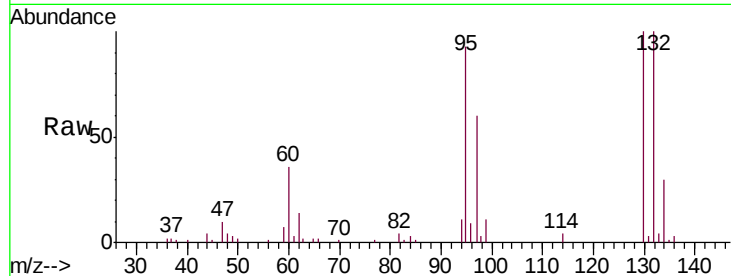
Ion Ratio Lower Upper

95 100

97 64.3 45.6 84.6

132 106.7 69.9 129.7

130 107.3 73.1 135.7

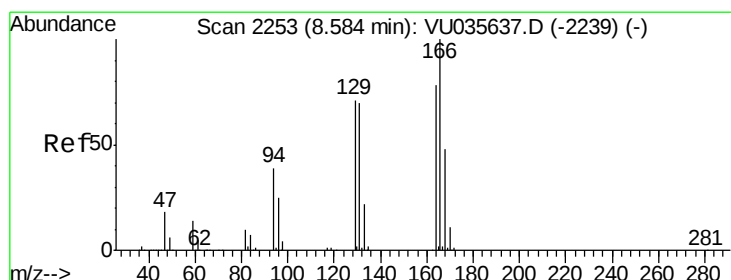
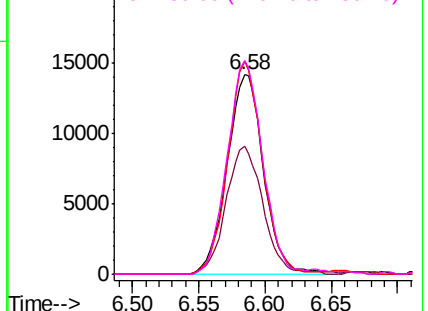


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#46

Tetrachloroethene

Concen: 5.485 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.00 min

Lab File: VU035654.D

Acq: 06 Nov 2019 17:49

Tgt Ion: 164 Resp: 19445

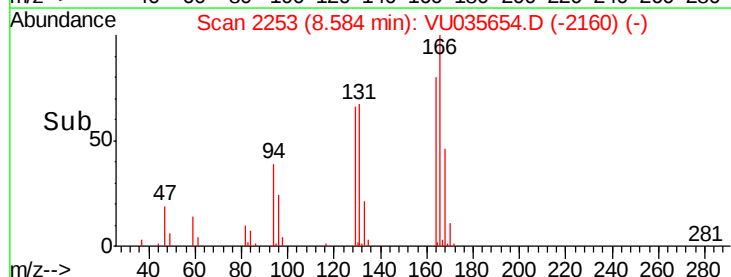
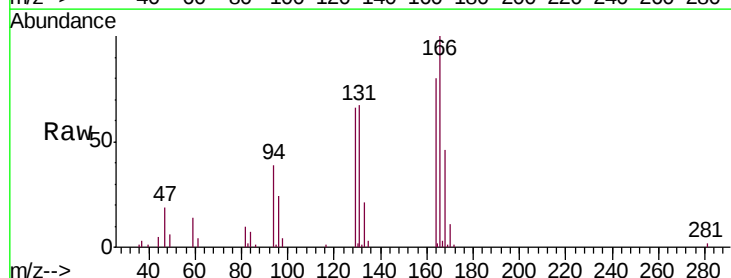
Ion Ratio Lower Upper

164 100

129 82.9 64.1 119.1

131 83.8 63.1 117.1

166 125.1 88.5 164.3

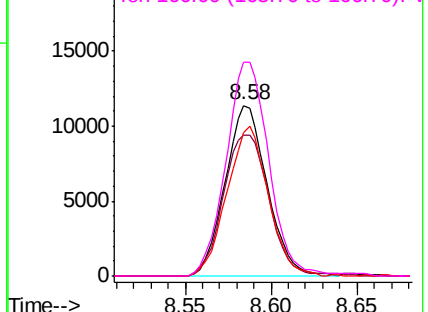


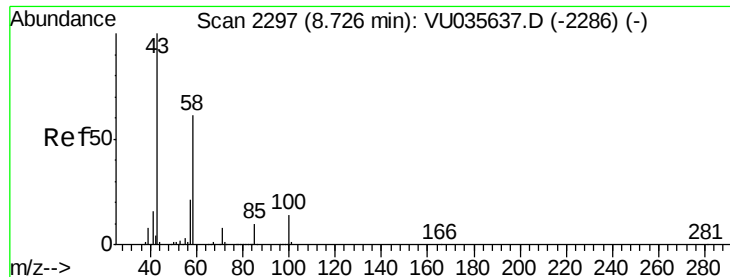
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

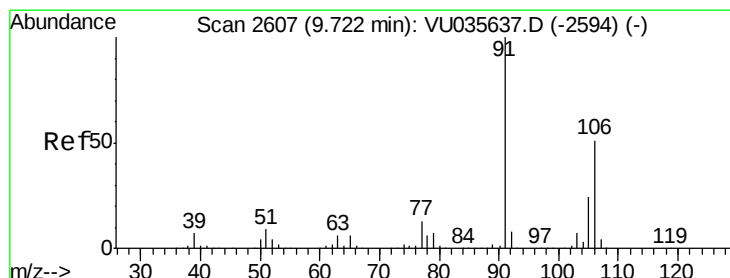
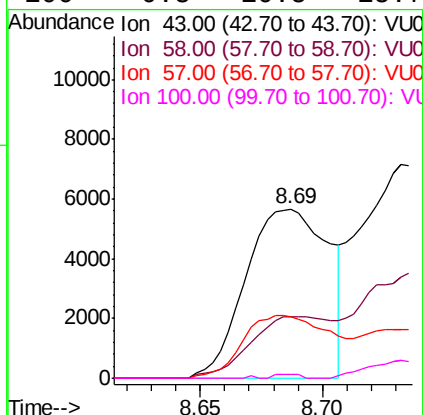
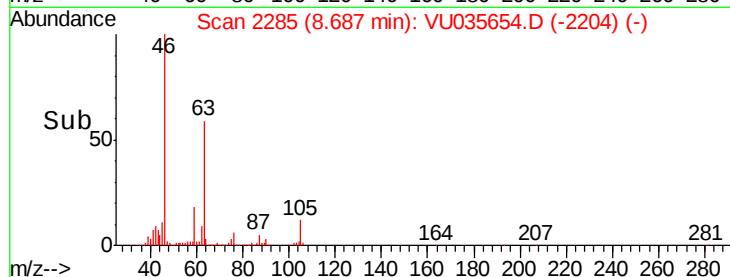
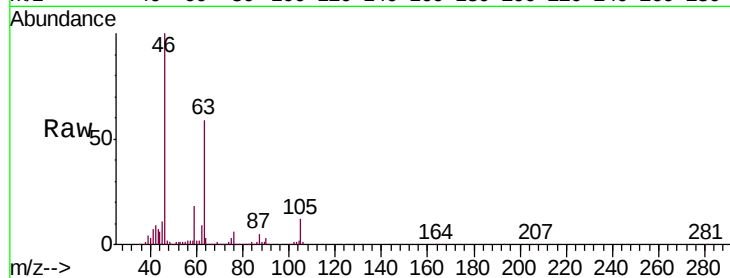




#48  
2-Hexanone  
Concen: 2.739 ug/L  
RT: 8.69 min Scan# 2285  
Delta R.T. -0.04 min  
Lab File: VU035654.D  
Acq: 06 Nov 2019 17:49

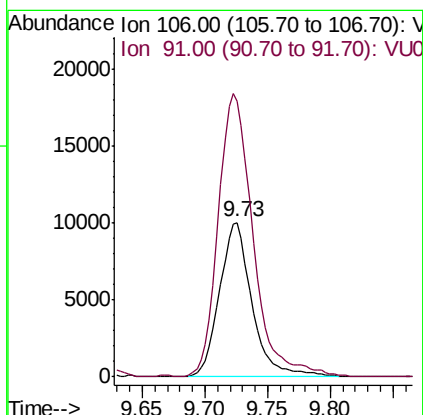
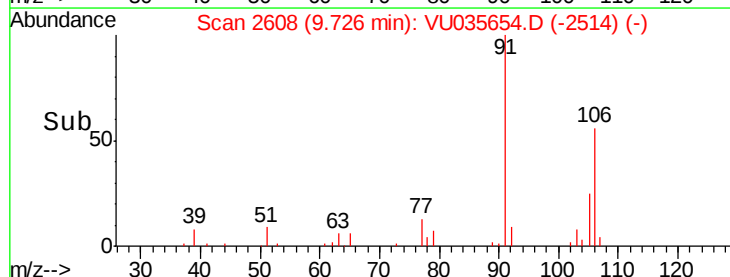
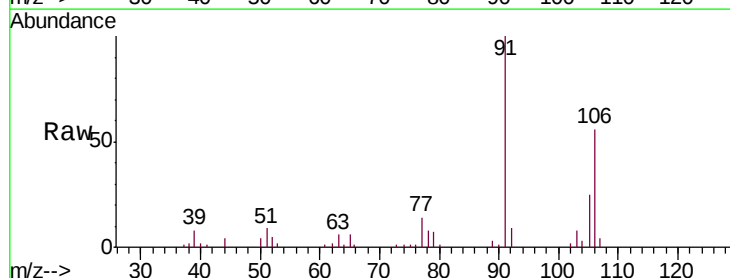
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MSVOA\_U  
ClientSampleId :  
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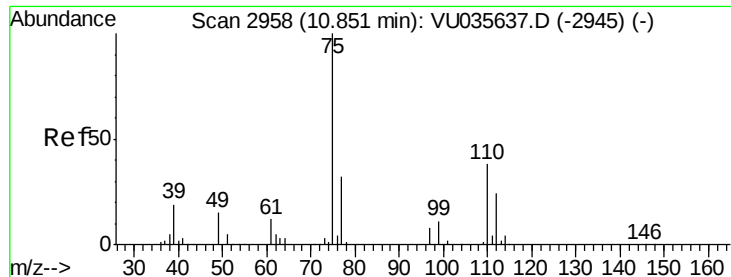
Tgt Ion: 43 Resp: 13308  
Ion Ratio Lower Upper  
43 100  
58 25.2 50.4 75.6#  
57 38.9 17.4 26.0#  
100 0.8 10.5 15.7#



#53  
m,p-Xylene  
Concen: 2.587 ug/L  
RT: 9.73 min Scan# 2608  
Delta R.T. 0.00 min  
Lab File: VU035654.D  
Acq: 06 Nov 2019 17:49

Tgt Ion: 106 Resp: 18137  
Ion Ratio Lower Upper  
106 100  
91 178.3 142.7 264.9





#59

1,2,3-Trichloropropane

Concen: 2.895 ug/L

RT: 11.84 min Scan# 3267

Delta R.T. 0.99 min

Lab File: VU035654.D

Acq: 06 Nov 2019 17:49

Instrument :

MSVOA\_U

ClientSampleId :

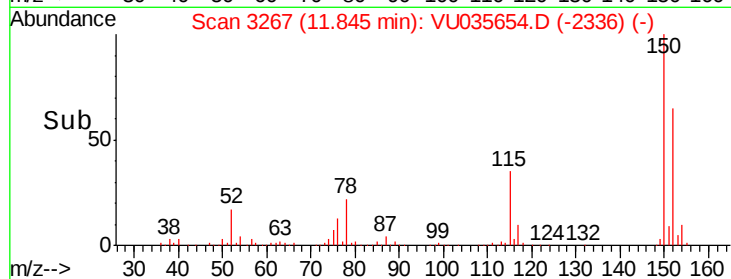
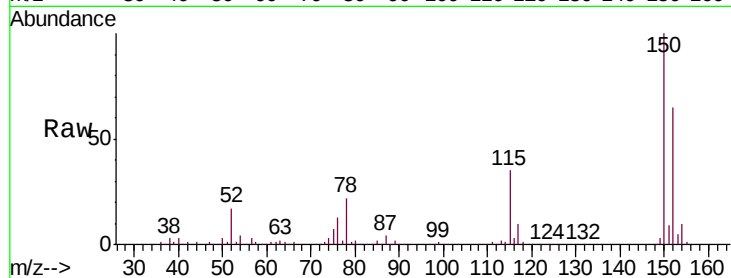
BE893

Tgt Ion: 75 Resp: 16857

Ion Ratio Lower Upper

75 100

77 38.1 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

